

Class B Estimate

Denver Service Center - Class B Estimate

Project: Comfort Station

Park: Yosemite National Park

Package: X256-01

Class B Estimate

Estimate By: RAM

Date: 24-Oct-03

Reviewed By: DSC

Date: 10/24/2003

Estimate is Based on 2003 Costs

Bid Item	Material Costs	Installation Costs	Total Costs
A10 Foundations	\$5,028	\$5,732	\$10,760
A20 Basement Construction			\$0
B10 Superstructure	\$277	\$290	\$567
B20 Exterior Enclosure	\$2,138	\$1,765	\$3,903
B30 Roofing	\$564	\$319	\$883
C10 Interior Construction	\$130	\$50	\$180
C20 Stairs			\$0
C30 Interior Finishes	\$667	\$483	\$1,150
D10 Conveying			\$0
D20 Plumbing	\$3,350	\$875	\$4,225
D30 HVAC	\$150	\$50	\$200
D40 Fire Protection			\$0
D50 Electrical			\$0
E10 Equipment			\$0
E20 Furnishings			\$0
F10 Special Construction			\$0
F20 Selective Building Demolition			\$0
G10 Site Preparation	\$3,780	\$3,150	\$6,930
G20 Site Improvements	\$6,368	\$10,288	\$16,656
G30 Site Mechanical Utilities			\$0
G40 Site Electrical Utilities			\$0
G90 Other Site Construction			\$0
Subtotal Direct Construction Cost	\$22,452	\$23,002	\$45,454
Park Location Factor - GRNP (3 percent)			\$1,364
Design Contingency (15 percent)			\$6,818
Total Direct Construction Costs			\$53,636
General Conditions (16 Percent)			\$8,582
Overhead & Profit (25 Percent)			\$13,409
TOTAL Estimated Cost of Construction			\$75,626

## Class B Estimate

Denver Service Center - Class A Estimate  
**Project:** Comfort Station - Load Drop Flats  
**Park:** The Great National Park  
**Package:** X256-01

**Estimate By:** RAM  
**Date:** 24-Oct-03  
**Reviewed By:** DSC  
**Date:** 10/24/2003

Estimate is Based on 2003 Costs

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>Bid Item 1</b>	<b>Comfort Station</b>								
<b>A1010 Standard</b>	<b>Foundations</b>								
	Strip Footing - 8-inch thick, reinforced	38.33	LF	\$8.00	\$307	\$13.50	\$517	\$21.50	\$824
	Foundation Walls - 8-inch thick, reinforced, including excavation and backfill	156	SF	\$28.00	\$4,368	\$30.72	\$4,792	\$58.72	\$9,160
	Spread Footing - 12-inch thick, reinforced	9	SF	\$7.00	\$63	\$10.00	\$90	\$17.00	\$153
	<b>Subtotals A1010 Standard Foundations</b>	<b>83</b>	<b>SF</b>		<b>\$4,738</b>		<b>\$5,400</b>	<b>\$122.14</b>	<b>\$10,137</b>

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>A1030 Slab on Grade</b>									
	Slab-on-Grade, 6" thick, reinforced	83	SF	\$3.50	\$291	\$4.00	\$332	\$7.50	\$623
	<b>Subtotal A1030 Slab on Grade</b>	<b>83</b>	<b>SF</b>		<b>\$291</b>		<b>\$332</b>	<b>\$7.50</b>	<b>\$623</b>

<b>A10</b>	<b>Foundations</b>				<b>\$5,028</b>		<b>\$5,732</b>		<b>\$10,760</b>
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Class B Estimate

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
B1020 Roof Construction									
	Wood Rafter, 8-in-12 pitch, 2'-6", 16"O.C.	126	SF	\$2.20	\$277	\$2.30	\$290	\$4.50	\$567
Subtotal B1020 Roof Construction		83	SF		\$277		\$290	\$6.83	\$567
B10	Super Structure				\$277		\$290		\$567

## Class B Estimate

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
B2010 Exterior Walls									
	18" no. 1 red cedar shingles, 6" exposed on 2"x4" studs, 16" O.C., insulated wall CDX sheathing	224	sf	\$3.77	\$845	\$6.13	\$1,373	\$9.90	\$2,218
Subtotal B2010 Exterior Walls		83	SF		\$845		\$1,373	\$26.72	\$2,218

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
B2020 Exterior Windows									
	Windows, Single Hung, Insulated Glass	4.5	SF	\$16.30	\$73	\$15.70	\$71	\$32.00	\$144
Totals B2020 Exterior Windows		83	SF		\$73		\$71	\$1.73	\$144

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
B2030 Exterior Doors									
	Door and Frame, Steel, 18Ga, hollow metal "A" Label, 3'0"x7'0" and Hardware	1	Each	\$1,220.00	\$1,220	\$322.00	\$322	\$1,542.00	\$1,542
Totals B2030 Exterior Doors		83	SF		\$1,220		\$322	\$18.58	\$1,542

<b>B20</b>	<b>Exterior Enclosure</b>			<b>\$2,138</b>		<b>\$1,765</b>		<b>\$3,904</b>	
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Class B Estimate

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
B3010 Roof Coverings									
	Asphalt Shingles, Class C, 300-385lbs/square, flashing, and building paper	126	SF	\$0.95	\$120	\$1.70	\$214	\$2.65	\$334
	Skylight -Solar Tube	3	SF	\$148.00	\$444	\$35.00	\$105	\$183.00	\$549
Totals B3010 Roof Coverings		83	SF		\$564		\$319	\$10.64	\$883
B30	Roofing				\$564	\$319		\$883	

Class B Estimate

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>C1030 Fittings</b>									
	Bathroom Accessories	1	Lump Sum	\$130.00	\$130	\$50.00	\$50	\$180.00	\$180
<b>Totals C1030 Fittings</b>		<b>83</b>	<b>SF</b>		<b>\$130</b>		<b>\$50</b>	<b>\$2.17</b>	<b>\$180</b>
<b>C10</b>	<b>Interior Construction</b>				<b>\$130</b>		<b>\$50</b>		<b>\$180</b>

## Class B Estimate

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
C3010 Wall Finishes									
	FRP Panels	250	sf	\$2.00	\$500	\$1.00	\$250	\$3.00	\$750
Totals C3010 Wall Finishes		83	SF		\$500		\$250	\$9.04	\$750

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
C3020 Floor Finishes									
09673.100-1300	Composition floor, epoxyk, heavy duty epoxy top, 1/4" thick, 500 to 1000sf	48	sf	\$3.49	\$167	\$4.86	\$233	\$8.53	\$400
Totals C3020 Floor Finishes		83	SF		\$167		\$233	\$4.82	\$400

<b>C30</b>	<b>Interior Finishes</b>				<b>\$667</b>		<b>\$483</b>		<b>\$1,150</b>
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## Class B Estimate

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>D2010 Plumbing Fixtures</b>									
	Vault Toilet Fixtures	1	Set	\$750.00	\$750	\$250.00	\$250	\$1,000.19	\$1,000
<b>Totals D2010 Plumbing Fixtures</b>		<b>83</b>	<b>SF</b>		<b>\$750</b>		<b>\$250</b>	<b>\$12.05</b>	<b>\$1,000</b>

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>D2030 Sanitary Waste</b>									
	Vault and Piping, 1000 gallons	1	lump sum	\$2,500.00	\$2,500	\$500.00	\$500	\$3,000.19	\$3,000
	Piping, subdrainage, perforated PVC, 4" dia	50	LF	\$2.00	\$100	\$2.50	\$125	\$4.69	\$225
<b>Totals D2030 Sanitary Waste</b>		<b>83</b>	<b>SF</b>		<b>\$2,600</b>		<b>\$625</b>	<b>\$38.86</b>	<b>\$3,225</b>

<b>D20</b>	<b>Plumbing</b>				<b>\$3,350</b>		<b>\$875</b>		<b>\$4,225</b>
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Class B Estimate

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
D3040 HVAC Distribution Systems									
	Solar Energy System	1	each	\$150.00	\$150	\$50.00	\$50	\$200.00	\$200
Totals D3040 HVAC Distribution Systems		83	SF		\$150		\$50	\$2.41	\$200
D30	HVAC				\$150		\$50		\$200

SAMPLE

Class B Estimate

Item No.	Description	Qty.	Unit	Material		Installation		Total	
				Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
<b>G1030 Site Earthwork</b>									
	Site Earthwork	1800	SF	\$2.10	\$3,780	\$1.75	\$3,150	\$3.85	\$6,930
<b>Totals G1030 Site Earthwork</b>		<b>1800</b>	<b>SF</b>		<b>\$3,780</b>		<b>\$3,150</b>	<b>\$3.85</b>	<b>\$6,930</b>
<b>G10</b>	<b>Site Preparation</b>				<b>\$3,780</b>		<b>\$3,150</b>		<b>\$6,930</b>

Class B Estimate

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
G2030 Pedestrian Paving									
	Sidewalk	1600	sf	\$1.48	\$2,368	\$2.68	\$4,288	\$3.29	\$6,656
Totals G2030 Pedestrian Paving		1800	SF		\$2,368		\$4,288	\$3.70	\$6,656

				Material		Installation		Total	
Item No.	Description	Qty.	Unit	Cost/Unit	Mat'l Cost	Cost/Unit	Install Cost	Cost/Unit	TOTAL
G2040 Site Development									
	Stone Wall	400	sf	\$10.00	\$4,000	\$15.00	\$6,000	\$25.00	\$10,000
Totals G2040 Site Development		1800	SF		\$4,000		\$6,000	\$5.56	\$10,000

G20	Site Improvements				\$6,368		\$10,288		\$16,656
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TOTAL ESTIMATED DIRECT PROJECT CONSTRUCTION COST									\$45,455
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